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United States Department of Agriculture,

WASHINGTON, D. C., *June 30, 1915.*

MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1915.]

No publications are sold by the Department of Agriculture; therefore do not send money to this office.

Copies of any of the publications listed herein, except the Journal of Agricultural Research, Experiment Station Record, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

When this department's supply is exhausted, publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

REPORTS.

Contributions Toward a Classification and Biology of the North American Cerambycidæ: Larvæ of the Prioninæ. By F. C. Craighead, Entomological Assistant, Forest Insect Investigations. Pp. 24, pls. 8. Contribution from the Bureau of Entomology. June 25, 1915. (Report No. 107, Office of the Secretary.) Price, 10 cents.

Technical in character and of interest to Entomologists.

SERIALS.

Journal of Agricultural Research, Vol. 4, No. 3. June, 1915.

Contents: Relation Between Puccinia Graminis and Plants Highly Resistant to Its Attack. By E. C. Stakman.—Antagonism Between Anions as Affecting Barley Yields on a Clay-Adobe Soil. By Charles B. Lipman and W. F. Gericke.—A New Wheat Thrips. By E. O. G. Kelly.—Cytological Studies of Azotobacter Chroococcum. By Augusto Bonazzi.—Influence of Soil Moisture upon the Rate of Increase in Sugar-Beet Root-Louse Colonies. By J. R. Parker.—A New Leaf and Twig Disease of Picea Engelmanni. By James R. Weir.—Some Sugar-Cane Root-Boring Weevils of the West Indies. By W. Dwight Pierce.—A Contribution to the Life History of Spongospora Subterranea. By L. O. Kunkel. Pp. 193–278, pls. 16. Price, 25 cents.

NOTE.—THE JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being $2.50 per year, 12 numbers.

Experiment Station Record, Vol. XXXII, No. 8. June, 1915. E. W. Allen, Ph. D., Editor. Pp. 701–800. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at $1 a volume.

The Monthly Crop Report, Vol. 1, No. 2. June 12, 1915. Pp. 1–8. (Bureau of Crop Estimates.)

The Monthly Crop Report is a resumption, in size and nature of material, of the Crop Reporter, which was discontinued with the issue of June 19, 1914. It contains data relating to agriculture, including estimates of acreage, condition, yield, prices, and value of crops and live stock. The publication of the Agricultural Outlook, which formerly contained this matter, was discontinued with the issue of April, 1915.

SERVICE AND REGULATORY ANNOUNCEMENTS.

These contain *only* information, instructions, and notices governing the enforcement of the pure food and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at 5 cents per copy.

Bureau of Chemistry. Supplement No. 3. Pp. 125–184. June 5, 1915. Price, 5 cents.

Bureau of Chemistry. Supplement No. 4. Pp. 185–239. June 15, 1915. Price, 5 cents.

Insecticide and Fungicide Board. March and April, 1915. Pp. 15–30. No. 9. June 11, 1915. Price, 5 cents.

Bureau of Plant Industry. No. 2. Pp. 9–14. June 17, 1915. Price, 5 cents.

SOIL SURVEYS.

Soil Survey of Escambia County, Alabama. By R. T. Avon Burke and J. M. Snyder, of the U. S. Department of Agriculture, and A. M. O'Neal, jr., and F. W. Kolb, of the Alabama Department of Agriculture and Industries. Pp. 51, fig. 1. map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Pope County, Arkansas. By Clarence Lounsbury and E. B. Deeter. Pp. 51, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Greene County, Missouri. By H. H. Krusekopf, of the University of Missouri, and F. Z. Hutton, of the U. S. Department of Agriculture. Pp. 38, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Perry County, Missouri. By B. W. Tillman, of the U. S. Department of Agriculture, and C. E. Deardorff, of the University of Missouri. Pp. 34, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Douglas County, Nebraska. By A. H. Meyer, E. H. Smies, and T. M. Bushnell, of the U. S. Department of Agriculture, and R. R. Spafford, R. R. Burn, and C. W. Smith, of the Nebraska Soil Survey. Pp. 48, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Saunders County, Nebraska. By A. H. Meyer, E. H. Smies, and T. M. Bushnell, of the U. S. Department of Agriculture, and R. R. Spafford, R. R. Burn, and R. J. Scarborough, of the Nebraska Soil Survey. Pp. 52, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Reconnoissance Soil Survey of South-Central Texas. By A. E. Kocher and Party. Pp. 117, pls. 5, figs. 4, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of the Cache Valley Area, Utah. By J. W. Nelson and E. C. Eckmann. Pp. 70, pls. 4, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

BULLETINS.

Corn in the Great Plains Area. Relation of Cultural Methods to Production. By E. C. Chilcott, Agriculturist in Charge, and J. S. Cole and W. W. Burr, Assistants, Office of Dry-Land Agriculture. Pp. 31, figs. 6. Contribution from the Bureau of Plant Industry. June 2, 1915. (Department Bulletin 219.) Price, 5 cents.

This bulletin is intended for all who are interested in the agricultural possibilities of the Great Plains area.

Road Models. Pp. 24, pls. 13, figs. 2. Contribution from the Office of Public Roads. June 7, 1915. (Department Bulletin 220.) Price, 15 cents.

This bulletin contains illustrations and descriptions of the models in miniature of roads, bridges, and culverts and of road machinery exhibited by the Office of Public Roads at expositions and fairs and on railroads. Methods of construction are discussed.

The Southern Corn Leaf-Beetle. By E. O. G. Kelly, Entomological Assistant, Cereal and Forage Insect Investigations. Pp. 11, pls. 2, figs. 6. Contribution from the Bureau of Entomology. (Professional Paper.) June 16, 1915. (Department Bulletin 221.) Price, 5 cents.

This bulletin is of especial interest to entomologists in the southern half of the United States.

Botanical Characters of the Leaves of the Date Palm Used in Distinguishing Cultivated Varieties. By Silas C. Mason, Arboriculturist, Crop Physiology and Breeding Investigations. Pp. 28, pls. 5, figs. 15. Contribution from the Bureau of Plant Industry. (Professional Paper.) June 23, 1915. (Department Bulletin 223.) Price, 10 cents.

This bulletin is of interest to date growers, especially in the Southwestern States.

The Production of Lumber in 1913. By the Office of Industrial Investigations. Pp. 32, figs. 2. Contribution from the Forest Service. (Professional Paper.) June 26, 1915. (Department Bulletin 232.) Price, 5 cents.

Of interest to lumbermen and manufacturers of wood products.

Control of Dried-Fruit Insects in California. By William B. Parker, Entomological Assistant, Truck Crop and Stored Product Insect Investigations. Pp. 15, pls. 7, figs. 4. Contributions from the Bureau of Entomology. June 24, 1915. (Department Bulletin 235.) Price, 10 cents.

Of interest to growers and packers of fruits, especially in California.

The Eggplant Lace-Bug. By David E. Fink, Entomological Assistant, Truck Crop and Stored Product Insect Investigations. (In cooperation with the Virginia truck experiment station, Norfolk, Va.) Pp. 7, pls. 6. Contribution from the Bureau of Entomology. (Professional Paper.) June 24, 1915. (Department Bulletin 239.) Price, 10 cents.

This bulletin deals with a new enemy of eggplant and related plants. It will be of interest wherever these plants are grown commercially.

Studies on Fruit Juices. By H. C. Gore, Chemist in Charge, Fruit and Vegetable Utilization Laboratory. Pp. 19. Contribution from the Bureau of Chemistry. June 14, 1915. (Department Bulletin 241.) Price, 5 cents.

This bulletin will be of interest only to those concerned with the commercial manufacture of fruit juices. The methods given call for cold storage, sterilization in carbon dioxid, and other processes not commonly available to the housewife.

Corn, Milo and Kafir, in the Southern Great Plains Area: Relation of Cultural Methods to Production. By E. F. Chilcott, W. D. Griggs, and C. A. Burmeister, Assistants, Office of Dry-Land Agriculture. Pp. 20. Contribution from the Bureau of Plant Industry. June 19, 1915. (Department Bulletin 242.) Price, 5 cents.

This bulletin is intended for all who are interested in the agricultural possibilities of the southern Great Plains area.

The Effect of Different Times of Plowing Small-Grain Stubble in Eastern Colorado. By O. J. Grace, Assistant, Dry-Land Agriculture Investigations. Pp. 15, fig. 1. Contribution from the Bureau of Plant Industry. June 29, 1915. (Department Bulletin 253.) Price, 5 cents.

Of interest to all farmers in the Great Plains area.

The Sharp-Headed Grain Leafhopper. By Edmund H. Gibson, Entomological Assistant, Cereal and Forage Insect Investigations. Pp. 16, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) June 29, 1915. (Department Bulletin 254.) Price, 5 cents.

This paper is of interest to entomologists throughout the United States.

The Violet Rove-Beetle. By F. H. Chittenden, Sc. D., In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 4, fig. 1. Contribution from the Bureau of Entomology. June 15, 1915. (Department Bulletin 264.) Price, 5 cents.

Of especial interest to florists.

Contents and Index to Technical Series No. 23, Bureau of Entomology. Pp. i–vi, 53–57. June 22, 1915. Price, 5 cents.

A Report on the Work and Expenditures of the Agricultural Experiment Stations, during the Fiscal Year Ended June 30, 1913. Pp. 110, pls. 6. (Office of Experiment Stations.) Price, 10 cents.

The Work of the Umatilla Reclamation Project Experiment Farm in 1914. By R. W. Allen, Collaborator. Pp. 18, figs. 3. June 18, 1915. (Bureau of Plant Industry.) Price, 5 cents.

FARMERS' BULLETINS.

Drug Plants under Cultivation. By W. W. Stockberger, Physiologist in Charge of Drug-Plant and Poisonous-Plant Investigations. Pp. 39, figs. 8. Contribution from the Bureau of Plant Industry. June 5, 1915. (Farmers' Bulletin 663.)

Suitable for general distribution.

Field Mice as Farm and Orchard Pests. By D. E. Lantz, Assistant Biologist. Pp. 10, figs. 10. Contribution from the Bureau of Biological Survey. June 3, 1915. (Farmers' Bulletin 670.)

This bulletin describes the habits, geographic distribution, and methods of destroying meadow mice and pine mice, and discusses the value of protecting their natural enemies among mammals, birds, and reptiles. It is for general distribution.

Irrigation Practice in Rice Growing. By C. G. Haskell, Irrigation Engineer. Pp. 12, fig. 1. Contribution from the Office of Experiment Stations. June 23, 1915. (Farmers' Bulletin 673.)

This bulletin will be of interest to farmers growing rice under irrigation.

Hard Clover Seed and Its Treatment in Hulling. By George T. Harrington, Scientific Assistant, Seed Laboratory. Pp. 8. Contribution from the Bureau of Plant Industry. June 24, 1915. (Farmers' Bulletin 676.)

The facts brought out in this bulletin are of special interest to farmers who grow clover for the seed, to farmers who sow clover seed, to seedsmen, and to the manufacturers and operators of clover-hulling machinery.

Growing Hay in the South for Market. By C. V. Piper, Agrostologist in Charge of Forage-Crop Investigations, H. B. McClure, Scientific Assistant, Farm-Management Investigations, and Lyman Carrier, Agronomist, Forage-Crop Investigations. Pp. 22, figs. 10. Contribution from the Bureau of Plant Industry. June 16, 1915. (Farmers' Bulletin 677.)

This bulletin is designed to furnish information on the subject of hay growing to those farmers in the South who are contemplating changing from cotton growing to some other money crop.

Growing Hard Spring Wheat. By Carleton R. Ball, Agronomist in charge, and J. Allen Clark, Scientific Assistant, Western Wheat Investigations, Office of Cereal Investigations. Pp. 16, figs. 4. Contribution from the Bureau of Plant Industry. June 10, 1915. (Farmers' Bulletin 678.)

This bulletin discusses the topographic, soil, and climatic features of the northern Great Plains, with special reference to the production of hard spring wheat in that area. Cultural methods for growing the crop are given.

SEPARATES.

The National Forests and The Farmer. By Henry S. Graves, Forester. Pp. 65–88, pls. 6. (Separate 633, Yearbook 1914.) Price, 5 cents.

Clean Water and How to Get it on the Farm. By Robert W. Trullinger, Specialist in Rural Engineering, Office of Experiment Stations. Pp. 139–156. pls. 3. figs. 4. (Separate 634, Yearbook, 1914.) Price, 10 cents.

Retail Public Markets. By G. V. Branch, Investigator in City Marketing, Office of Markets and Rural Organization. Pp. 167–184. pls. 4. (Separate 636, Yearbook, 1914.) Price, 5 cents.

Cooperative Marketing, and Financing of Marketing Associations. By C. E. Bassett and Clarence W. Moomaw, Specialists in Cooperative Organization, and W. H. Kerr, Investigator in Market Business Practice, Office of Markets and Rural Organization. Pp. 185–210. pls. 1. (Separate 637, Yearbook, 1914.) Price, 5 cents.

Apple Sirup and Concentrated Cider: New Products for Utilizing Surplus and Cull Apples. By H. C. Gore, Chemist in Charge, Fruit and Vegetable Utilization Laboratory, Bureau of Chemistry. Pp. 227–244. figs. 2. (Separate 639, Yearbook, 1914.) Price, 5 cents.

The Economy of Farm Drainage. By R. D. Marsden, Office Engineer, Drainage Investigations, Office of Experiment Stations. Pp. 245–256. pls. 4. (Separate 640, Yearbook, 1914.) Price, 5 cents.

Selection of Household Equipment. By Helen H. Atwater, Assistant in Nutrition, Office of Experiment Stations. Pp. 339–362. pls. 4, fig. 1. (Separate 646, Yearbook, 1914.) Price, 5 cents.

The Egg and Poultry Demonstration Car Work in Reducing our $50,000,000 Waste in Eggs. By M. E. Pennington, H. C. Pierce, and H. L. Shrader, Bureau of Chemistry. Pp. 363–380. pls. 4. fig. 1. (Separate 647, Yearbook, 1914.) Price, 5 cents.

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Hard Wheats Winning Their Way. By Mark Alfred Carleton, Cerealist in Charge of Cereal Investigations, Bureau of Plant Industry. Pp. 391–420. pls. 7. figs. 4. (Separate 649, Yearbook, 1914.) Price, 10 cents.

The Farm Woodlot Problem. By Herbert A. Smith, Editor, Forest Service. Pp. 439–456. pls. 8. (Separate 651, Yearbook, 1914.) Price, 10 cents.

Nematodes and Their Relationships. By N. A. Cobb, Technologist in Charge of Agricultural Technology, Bureau of Plant Industry. Pp. 457–490. figs. 20. (Separate 652, Yearbook, 1914.) Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, Nos. 11, 12, 13, 14, 15, June, 1915, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1915